

**DATA CONVERTERS WITH
DIGITALLY FILTERED PULSE WIDTH MODULATION OUTPUT STAGES
AND METHODS AND SYSTEMS USING THE SAME**

ABSTRACT:

[0045] A digital to analog converter including a noise shaping modulator for modulating an input digital data stream, a plurality of output elements for generating a plurality of intermediate data streams from a modulated output stream from the modulator, and an output summer for summing the intermediate data streams to generate an output analog stream. The noise shaping modulator balances an edge transition rate of the output elements, such that the edge transition rate of two selected elements is approximately equal.

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